



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** G. Biallas, D. Douglas

**DATE:** 16 Nov 2005

**FROM:** J. Dahlberg

**Checked:**

**#:** F1022

**DETAILS:**

Below are the results from the inspection survey performed on sextupole #11. A right handed coordinate system was established using the average pole tips to define the XY origin, and the bisected planes of the outside steel to define the Z origin and fix the pitch and yaw. A +X is to the beam left, a +Z is downstream, and a +Y is up. The 12 o'clock location is at the top with the remaining locations labeled clockwise looking downstream. The sextupole is labeled correspondingly.

POLE TIP	APEX TO CENTER AXIS		Z DIST FROM CENTER	
	Upst	Dnst	Upst	Dnst
12 o'clock	133.83	133.68	-51.20	51.06
02 "	133.66	133.65	-51.19	51.11
04 "	133.70	133.73	-51.25	51.12
06 "	133.62	133.73	-51.18	51.17
08 "	133.66	133.81	-51.15	51.19
10 "	133.65	133.61	-51.17	51.16

**GAP BETWEEN POLE TIPS**

	Upst	Dnst
12-02 o'clock	45.56	45.49
02-04	45.55	45.55
04-06	45.46	45.47
06-08	45.56	45.57
08-10	45.49	45.48
10-12	45.46	45.56

FIELD CLAMP	Z	X	Y	DIAMETER
Upst	-142.00	0.01	-0.40	285.73
Dnst	142.82	-0.10	-0.81	285.75

**Z DIST FROM CENTERLINE TO FIELD CLAMP INSIDE EDGE**

	Upst	Dnst
12 o'clock	-129.34	130.52
02 "	-129.29	129.94
04 "	-129.41	130.06
06 "	-129.80	130.59
08 "	-129.59	130.82
10 "	-129.44	130.53